



CASE STUDY

The Client: Kings Island
The Challenge: Pair each thrill ride with a reliable compressor that fits the application
The Conclusion: Forty-one installations since 1972



Kings Island Consistently Delivers Thrills and Chills with Reliable Attraction Performance

Thrill seekers shriek with joy at this popular Midwest theme park where Quincy Compressor delivers reliable compressed air products and top-notch service to keep riders coming to a full and complete stop time after time.

Quincy air compressors halt riders on Plankton's Plunge and keep the water fountains dancing on cue around the park.



The Client

Any summer day between Memorial Day and Labor Day a distinctive din can be heard rising from just inside the gates of one of the Midwest's most famous theme parks, Kings Island, located just outside Cincinnati, OH. From a distance, one might mistake this loud noise for the familiar song of cicada, but as the turn styles come into view, the ebb and flow of human screams becomes obvious. Every year, millions of thrill seekers pour through the gates in an annual pilgrimage for chills on any one of the park's 14 world-class roller coasters or 18 other amusement park rides. Their highest expectations are met time after time with an



ever-expanding variety of heart-pounding options.

The Challenge

Since 1972, park operators have focused on providing the most memorable experiences, adding dare-devil, breath-stealing attractions and snaking, loop-de-loop coasters with adrenaline-pumping action at every turn. With operating some 40 theme rides comes demanding compressed air needs. For 31 years, Tom Dillingham, Kings Island's Manager of Ride Mechanical & Automotive Maintenance, has skillfully orchestrated compressed air system installations and maintenance for each attraction. "It's important for guests to enjoy their visit, and every day air compressors play an important part in making that happen," Tom said. He learned early on to stick with high-performing equipment and relies primarily on Quincy Compressor units for 41 of 47 air compressors in operation throughout the park. Tom also relies on expert recommendations made over the years by his Quincy distributor, Brehob

Corporation. Today, Tom works closely with Brehob's Kevin England to determine the system requirements on new rides. Plus, twice a year, Dave Saalfeld, who specializes in reciprocating compressor



maintenance and Tim Lohman, who specializes in rotary screw compressor maintenance join with the Kings Island maintenance team to perform bi-annual maintenance to either winterize the systems or prepare the park for reopening and full-time seasonal operation. The well-orchestrated process happens like clockwork, ensuring each unit is functioning at peak performance. "We're an extension of Tom's team," said Kevin. "We have personnel on call and dedicated to responding immediately in case any issues arise. We're always nearby." The long-standing relationship gives Tom additional confidence in his decisions. "When I have a new project, I send the specifications to Brehob,

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WORLD'S BEST WARRANTY OFFERING 10-YEAR AIREND

When it comes to reliability, everyone is making the same promise. But when it comes to keeping the promise, Quincy Compressor stands alone. This is why Quincy Compressor has introduced its exclusive ten-year airend warranty that covers both parts and labor on select models. Reliability is about confidence, performance, and trust – every day. Quincy Compressor's Royal Blue Warranty program is proving reliability for the next ten years.

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and I know I can trust their recommendations," Tom added.

The Solution

Most of the compressed air generated in the park is supplied to pneumatic braking systems. The Beast, which opened in 1979, is the world's longest wooden roller coaster at 7,400 feet with 141- and 135-foot vertical drops and 540-degree helix tunnel at a racing speed of 65 miles per hour. A Quincy QSB-25 rotary screw compressor keeps the Beast roaring. The Son of Beast boasts a series of world records including tallest wooden roller coaster at 218 feet, tallest wooden roller coaster drop of 214 feet, fastest wood-



"Our compressors run 12 hours a day for 130 days straight, and they don't wear out."

Tom Dillingham
Kings Island

en coaster racing at 78 mph and the most wooden coaster track at one park with 22,612 feet. Its air is also supplied by

a QSB 25. Among the more modern coasters, the Vortex is a steel looking roller coaster that thrills riders by sending them upside down six times and was the world's first coaster with six inversions. This topsy turvy ride employs a Quincy QST-25 rotary screw compressor. Other nail-biting rides include the Runaway Raptor, Flight Deck, Crypt and Plankton's Plunge for the kiddies. Plus, water park enthusiasts chase away the heat aboard Boomerang Bay, Snowy River Rampage and Crocodile Run, each relying on a Quincy reciprocating model for proper operation. "It feels good to keep everything up and running for guests to

enjoy," Tom explained, "We take pride in keeping the rides running well, and it's important for guests not to wait for a repair. When we see our guests leaving with smiles, it's very satisfying."

Safety is of the utmost concern for park operators. Every ride is inspected daily, and in the winter, each coaster is torn down to the bare frames, particle tested and x-rayed to ensure its integrity. Optimum performance on each ride is also critical to keeping guests coming back year after year. "Our compressors run 12-hours a day for 130 days straight," Tom grinned, "And they don't wear out."

PRODUCTS AND SERVICES

Quincy's product line includes the following categories:

- Rotary Screw Compressors
 - QSI 50 hp 300 hp
 - QGV 50 hp 200 hp
 - QGB 10 hp 60 hp
 - QSF 50 hp 200 hp
- Reciprocating Compressors
 - QR25 1 hp 25 hp
 - QT 3 hp 15 hp
 - PLT 3 hp 15 hp
- Climate Control & Medical Systems
- Vacuum Pumps
- Air Treatment
- EQ Auditing Services

MARKETS AND INDUSTRIES

- Agriculture/Farm
- Automotive/Tire
- Climate Control
- Contractor/Builder
- Dry Cleaning
- Energy Exploration
- Food & Beverage
- Low Pressure
- Manufacturing
- Medical & Dental
- Pharmaceutical
- Plastics
- Woodworking

UNDENIABLY THE WORLD'S FINEST

Quincy Compressor, an EnPro Industries company, specializes in compressed air technology, offering top-notch products and services since 1920. Serving the industry nearly nine decades, Quincy is on the cutting edge, engineering quality and reliability into every offering. Award-winning accomplishments have allowed Quincy to build solid relationships with its customers and achieve compressed air systems best practices. Quincy's flagship products include the QSI and QGV rotary screw compressors, the reciprocating QR-25, QT and Climate Control packages along with its innovative Royal Blue Warranty, widely recognized as the industry's strongest warranty program.



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